



520.43141X00

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicants: Koichi OKADA, et al.

Serial No.: 10/661,574

Filed: September 15, 2004

For: CHANGING-OVER AND CONNECTING A FIRST PATH,  
WHEREIN HOSTS CONTINUE ACCESSING AN OLD DISK  
USING A SECOND PATH, AND THE SECOND PATH OF THE  
OLD DISK TO A NEWLY CONNECTED DISK VIA A SWITCH  
(Amended)

Group: 2182

Examiner: I. Park

**INFORMATION DISCLOSURE STATEMENT  
UNDER 37 CFR §1.97 & 1.98**

**MS Amendment**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

June 15, 2006

Sir:

In the matter of the above-identified application, applicants are submitting copies of the documents listed in the attached form equivalent to Form PTO-1449 for the Examiner's consideration. The Examiner is informed that copies of the U.S. documents are not being enclosed.

This information disclosure statement is being submitted before the mailing date of a first office action on the merits.

To the extent the documents listed on the attached form equivalent to Form PTO-1449 are not in the English language, the requirement of 37 CFR

§1.98(a)(3) for a concise explanation of the relevance is satisfied by an English language translation of the documents.

It is respectfully requested that this information disclosure statement be considered by the Examiner.

Please charge any shortage in the fees due in connection with the filing of this paper, including extension of time fees, to the deposit account of MATTINGLY, STANGER, MALUR & BRUNDIDGE, P.C., Deposit Account No. 50-1417 (520.43141X00) please credit any excess fees to such deposit account.

Respectfully submitted,



CIB/jdc  
(703) 684-1120

---

Carl I. Brundidge  
Registration No. 29,621  
MATTINGLY, STANGER, MALUR & BRUNDIDGE, P.C.



**FORM PTO-1449** U.S. Department of  
Commerce Patent and Trademark Office

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

ATTY. DOCKET NO.

**520.43141X00**

SERIAL NO.

**10/661,574**

APPLICANT

**K. OKADA, et al**

FILING DATE

**September 15, 2003**

GROUP

**2182**

**U.S. PATENT DOCUMENTS**

| EXAMINER<br>INITIAL | DOCUMENT NUMBER | DATE  | NAME            | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|-----------------|-------|-----------------|-------|----------|-------------------------------|
|                     | 4 0 2 5 9 0 4   | 5/77  | Adney et al     |       |          |                               |
|                     | 5 4 0 8 4 6 5   | 4/95  | Gusella et al   |       |          |                               |
|                     | 5 4 5 9 8 5 7   | 10/95 | Ludlam et al    |       |          |                               |
|                     | 5 5 0 4 8 8 2   | 4/96  | Chai et al      |       |          |                               |
|                     | 5 6 8 0 5 8 0   | 10/97 | Beardsley et al |       |          |                               |
|                     | 5 8 7 0 5 3 7   | 2/99  | Kern et al      |       |          |                               |
|                     | 5 8 9 5 4 8 5   | 4/99  | Loechel et al   |       |          |                               |
|                     | 5 9 1 7 7 2 3   | 6/99  | Binford         |       |          |                               |
|                     | 5 9 5 6 7 5 0   | 9/99  | Yamamoto, et al |       |          |                               |
|                     | 6 0 1 2 1 2 3   | 1/00  | Pecone et al    |       |          |                               |
|                     | 6 0 9 8 1 2 9   | 7/00  | Fukuzawa et al  |       |          |                               |

**FOREIGN PATENT DOCUMENTS**

| DOCUMENT NUMBER       | DATE  | COUNTRY | CLASS | SUBCLASS | ABSTRACT |
|-----------------------|-------|---------|-------|----------|----------|
|                       |       |         |       |          | YES NO   |
| 0 9 2 8 8 5 4 7       | 11/97 | Japan   |       |          | XX       |
| 1 0 2 8 3 2 7 2       | 10/98 | Japan   |       |          | XX       |
| 2 0 0 0 2 9 3 3 1 7   | 10/00 | Japan   |       |          | XX       |
| 2 0 0 0 1 0 6 7 1 8 7 | 3/01  | Japan   |       |          | XX       |

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

|  |  |
|--|--|
|  |  |
|--|--|

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])

**FORM PTO-1449** U.S. Department of  
Commerce Patent and Trademark Office

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

ATTY. DOCKET NO.

**520.43141X00**

SERIAL NO.

**10/661,574**

APPLICANT

**K. OKADA, et al**

FILING DATE

**September 15, 2003**

GROUP

**2182**

**U.S. PATENT DOCUMENTS**

| EXAMINER<br>INITIAL | DOCUMENT NUMBER | DATE  | NAME            | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|-----------------|-------|-----------------|-------|----------|-------------------------------|
|                     | 6 1 7 3 3 7 4   | 1/01  | Heil, et al     |       |          |                               |
|                     | 6 2 1 9 7 5 3   | 4/01  | Richardson      |       |          |                               |
|                     | 6 2 4 7 0 9 9   | 6/01  | Skazinski et al |       |          |                               |
|                     | 6 2 4 7 1 0 3   | 6/01  | Kern et al      |       |          |                               |
|                     | 6 4 4 6 1 4 1   | 9/02  | Nolan et al     |       |          |                               |
|                     | 6 4 4 6 1 7 5   | 9/02  | West et al      |       |          |                               |
|                     | 6 4 8 4 1 7 3   | 11/02 | O'Hare, et al   |       |          |                               |
|                     | 6 4 9 0 6 5 9   | 12/02 | McKean et al    |       |          |                               |
|                     | 6 5 2 3 0 9 6   | 2/03  | Sanada et al    |       |          |                               |
|                     | 6 5 2 9 9 7 6   | 3/03  | Fukuzawa et al  |       |          |                               |
|                     | 6 5 5 3 4 0 8   | 4/03  | Merrell et al   |       |          |                               |

**FOREIGN PATENT DOCUMENTS**

|                  | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | ABSTRACT |    |
|------------------|-----------------|------|---------|-------|----------|----------|----|
|                  |                 |      |         |       |          | YES      | NO |
| 2<br>0<br>0<br>2 | 1 5 7 0 9 1     | 5/02 | Japan   |       |          | XX       |    |
| 2<br>0<br>0<br>2 | 2 3 0 2 4 6     | 8/02 | Japan   |       |          | XX       |    |

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

|  |   |
|--|---|
|  | White Paper, "Network Attached Storage in the Data Protection Environment", Sony Electronics Inc., Feb. 2002, pps. 1-23.  |
|  | S. Sicola, "SCSI-3 Fault Tolerant Controller Configurations Utilizing SCC & New Event Codes", High Availability Study Group, Doc. No. X3T10 95-312r3, Rev. 3.0, Feb. 28, 1996, pp. 1-4. |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])

**FORM PTO-1449** U.S. Department of  
Commerce Patent and Trademark Office

## INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

ATTY. DOCKET NO.

**520.43141X00**

SERIAL NO.

**10/661,574**

APPLICANT  
**K. OKADA, et al**

FILING DATE  
**September 15, 2003**

**GROUP  
2182**

## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL |  | DOCUMENT NUMBER |   |   |   |   |   |   | DATE  | NAME            | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|--|-----------------|---|---|---|---|---|---|-------|-----------------|-------|----------|-------------------------------|
|                     |  | 6               | 6 | 4 | 0 | 2 | 7 | 8 | 10/03 | Nolan et al     |       |          |                               |
|                     |  | 6               | 6 | 4 | 7 | 4 | 7 | 4 | 11/03 | Yanai et al     |       |          |                               |
|                     |  | 6               | 6 | 5 | 4 | 8 | 3 | 0 | 11/03 | Taylor et al    |       |          |                               |
|                     |  | 6               | 6 | 5 | 4 | 8 | 3 | 1 | 11/03 | Otterness et al |       |          |                               |
|                     |  | 6               | 6 | 7 | 5 | 2 | 5 | 8 | 1/04  | Bramhall et al  |       |          |                               |
|                     |  | 6               | 6 | 8 | 1 | 3 | 3 | 9 | 1/04  | McKean et al    |       |          |                               |
|                     |  | 6               | 6 | 8 | 4 | 3 | 1 | 0 | 1/04  | Anzai et al     |       |          |                               |
|                     |  | 6               | 7 | 4 | 5 | 2 | 8 | 1 | 6/04  | Saegusa         |       |          |                               |
|                     |  | 6               | 7 | 9 | 9 | 2 | 5 | 5 | 9/04  | Blumenau et al  |       |          |                               |
|                     |  | 6               | 8 | 5 | 1 | 0 | 2 | 0 | 2/05  | Matsumoto et al |       |          |                               |
|                     |  | 6               | 8 | 8 | 3 | 0 | 6 | 4 | 4/05  | Yoshida et al   |       |          |                               |

## FOREIGN PATENT DOCUMENTS

[illegible]

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

| OTHER DOCUMENTS (including Author, Title, Date, Volume, Pages, Etc.) |  |  |
|--|--|--|
|  |  |  |
|  |  |  |
|  |  |  |

|          |                 |
|----------|-----------------|
| EXAMINER | DATE CONSIDERED |
|----------|-----------------|

**EXAMINER:** Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])

|  |                                   |               |
|--|-----------------------------------|---------------|
| <b>FORM PTO-1449</b> U.S. Department of<br>Commerce Patent and Trademark Office<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(Use several sheets if necessary) | ATTY. DOCKET NO.                  | SERIAL NO.    |
|  | 520.43141X00                      | 10/661,574    |
|  | APPLICANT<br>K. OKADA, et al      |               |
|  | FILING DATE<br>September 15, 2003 | GROUP<br>2182 |

## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL | DOCUMENT NUMBER |   |   |   |   |   |   |       | DATE          | NAME | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|-----------------|---|---|---|---|---|---|-------|---------------|------|-------|----------|-------------------------------|
| 2<br>0<br>0<br>1    | 0               | 0 | 5 | 0 | 9 | 1 | 5 | 12/01 | O'Hare et al  |      |       |          |                               |
| 2<br>0<br>0<br>1    | 0               | 0 | 5 | 2 | 0 | 1 | 8 | 12/01 | Yokokura      |      |       |          |                               |
| 2<br>0<br>0<br>2    | 0               | 0 | 0 | 4 | 8 | 5 | 7 | 1/02  | Arakawa et al |      |       |          |                               |
| 2<br>0<br>0<br>2    | 0               | 1 | 3 | 3 | 7 | 3 | 5 | 9/02  | McKean et al  |      |       |          |                               |
| 2<br>0<br>0<br>2    | 0               | 1 | 5 | 6 | 8 | 8 | 7 | 10/02 | Hashimoto     |      |       |          |                               |
| 2<br>0<br>0<br>3    | 0               | 0 | 3 | 7 | 0 | 7 | 1 | 2/03  | Harris et al  |      |       |          |                               |
|                     | 6               | 3 | 5 | 6 | 9 | 7 | 7 | 3/02  | Ofek et al    |      |       |          |                               |

## FOREIGN PATENT DOCUMENTS

|  | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | ABSTRACT |    |
|--|-----------------|------|---------|-------|----------|----------|----|
|  |                 |      |         |       |          | YES      | NO |
|  |                 |      |         |       |          |          |    |

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

|          |                 |  |
|----------|-----------------|--|
|          |                 |  |
| EXAMINER | DATE CONSIDERED |  |

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])

|  |                                   |               |
|--|-----------------------------------|---------------|
| <b>FORM PTO-1449</b> U.S. Department of<br>Commerce Patent and Trademark Office<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(Use several sheets if necessary) | ATTY. DOCKET NO.                  | SERIAL NO.    |
|  | 520.43141X00                      | 10/661,574    |
|  | APPLICANT<br>K. OKADA, et al      |               |
|  | FILING DATE<br>September 15, 2003 | GROUP<br>2182 |

## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL | DOCUMENT NUMBER |   |   |   |   |   |   |      | DATE            | NAME | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|-----------------|---|---|---|---|---|---|------|-----------------|------|-------|----------|-------------------------------|
| 2<br>0<br>0<br>3    | 0               | 0 | 5 | 1 | 1 | 0 | 9 | 3/03 | Cochran         |      |       |          |                               |
| 2<br>0<br>0<br>3    | 0               | 0 | 5 | 6 | 0 | 3 | 8 | 3/03 | Cochran         |      |       |          |                               |
| 2<br>0<br>0<br>3    | 0               | 0 | 9 | 7 | 6 | 0 | 7 | 5/03 | Bessire         |      |       |          |                               |
| 2<br>0<br>0<br>3    | 0               | 1 | 0 | 1 | 2 | 2 | 8 | 5/03 | Busser et al    |      |       |          |                               |
| 2<br>0<br>0<br>3    | 0               | 1 | 1 | 5 | 4 | 3 | 2 | 6/03 | Biessener et al |      |       |          |                               |
|                     |                 |   |   |   |   |   |   |      |                 |      |       |          |                               |

## FOREIGN PATENT DOCUMENTS

|  | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | ABSTRACT |    |
|--|-----------------|------|---------|-------|----------|----------|----|
|  |                 |      |         |       |          | YES      | NO |
|  |                 |      |         |       |          |          |    |
|  |                 |      |         |       |          |          |    |

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

|  |  |
|--|--|
|  | "SAN Virtualization Guidelines", DataCore Software Corporation, 2000, pp. 1-9. |
|  |  |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])

|  |                                   |               |
|--|-----------------------------------|---------------|
| <b>FORM PTO-1449</b> U.S. Department of<br>Commerce Patent and Trademark Office<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(Use several sheets if necessary) | ATTY. DOCKET NO.                  | SERIAL NO.    |
|  | 520.43141X00                      | 10/661,574    |
|  | APPLICANT<br>K. OKADA, et al      |               |
|  | FILING DATE<br>September 15, 2003 | GROUP<br>2182 |

## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL | DOCUMENT NUMBER | DATE  | NAME          | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|-----------------|-------|---------------|-------|----------|-------------------------------|
| 2<br>0<br>0<br>3    | 0 1 2 6 3 2 7   | 7/03  | Pesola et al  |       |          |                               |
| 2<br>0<br>0<br>3    | 0 1 4 5 1 6 8   | 7/03  | LeCrone et al |       |          |                               |
| 2<br>0<br>0<br>3    | 0 1 5 8 9 9 9   | 8/03  | Hauck et al   |       |          |                               |
| 2<br>0<br>0<br>3    | 0 1 6 7 4 1 9   | 9/03  | Yanai et al   |       |          |                               |
| 2<br>0<br>0<br>3    | 0 2 0 0 3 8 7   | 10/03 | Urabe et al   |       |          |                               |
| 2<br>0<br>0<br>3    | 0 2 0 4 5 9 7   | 10/03 | Arakawa et al |       |          |                               |
| 2<br>0<br>0<br>3    | 0 2 1 2 8 6 0   | 11/03 | Jiang et al   |       |          |                               |

## FOREIGN PATENT DOCUMENTS

|  | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | ABSTRACT |    |
|--|-----------------|------|---------|-------|----------|----------|----|
|  |                 |      |         |       |          | YES      | NO |
|  |                 |      |         |       |          |          |    |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])



|  |                                   |               |
|--|-----------------------------------|---------------|
| <b>FORM PTO-1449</b> U.S. Department of<br>Commerce Patent and Trademark Office<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(Use several sheets if necessary) | ATTY. DOCKET NO.                  | SERIAL NO.    |
|  | 520.43141X00                      | 10/661,574    |
|  | APPLICANT<br>K. OKADA, et al      |               |
|  | FILING DATE<br>September 15, 2003 | GROUP<br>2182 |

## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL | DOCUMENT NUMBER | DATE  | NAME           | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|-----------------|-------|----------------|-------|----------|-------------------------------|
| 2<br>0<br>0<br>3    | 0 2 2 1 0 7 7   | 11/03 | Ohno et al     |       |          |                               |
| 2<br>0<br>0<br>4    | 0 0 0 3 0 2 2   | 1/04  | Garrison et al |       |          |                               |
| 2<br>0<br>0<br>4    | 0 0 4 9 5 5 3   | 3/04  | Iwamura et al  |       |          |                               |
| 2<br>0<br>0<br>4    | 0 0 5 4 8 5 0   | 3/04  | Fisk           |       |          |                               |
| 2<br>0<br>0<br>4    | 0 0 6 4 6 1 0   | 4/04  | Fukuzawa et al |       |          |                               |
| 2<br>0<br>0<br>4    | 0 0 6 4 6 4 1   | 4/04  | Kodama         |       |          |                               |
| 2<br>0<br>0<br>4    | 0 1 1 1 4 8 5   | 6/04  | Mimatsu et al  |       |          |                               |

## FOREIGN PATENT DOCUMENTS

|  | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | ABSTRACT |    |
|--|-----------------|------|---------|-------|----------|----------|----|
|  |                 |      |         |       |          | YES      | NO |
|  |                 |      |         |       |          |          |    |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])

|  |                                   |               |
|--|-----------------------------------|---------------|
| <b>FORM PTO-1449</b> U.S. Department of<br>Commerce Patent and Trademark Office<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(Use several sheets if necessary) | ATTY. DOCKET NO.                  | SERIAL NO.    |
|  | 520.43141X00                      | 10/661,574    |
|  | APPLICANT<br>K. OKADA, et al      |               |
|  | FILING DATE<br>September 15, 2003 | GROUP<br>2182 |

## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL | DOCUMENT NUMBER | DATE  | NAME            | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|-----------------|-------|-----------------|-------|----------|-------------------------------|
| 2<br>0<br>0<br>4    | 0 1 2 3 1 8 0   | 6/04  | Soejima, et al  |       |          |                               |
| 2<br>0<br>0<br>4    | 0 1 4 3 8 3 2   | 7/04  | Yamamoto, et al |       |          |                               |
| 2<br>0<br>0<br>4    | 0 1 4 8 4 4 3   | 7/04  | Achiwa et al    |       |          |                               |
| 2<br>0<br>0<br>4    | 0 1 7 2 5 1 0   | 9/04  | Nagashima et al |       |          |                               |
| 2<br>0<br>0<br>4    | 0 2 3 0 9 8 0   | 11/04 | Koyama et al    |       |          |                               |
| 2<br>0<br>0<br>4    | 0 2 6 0 8 7 5   | 12/04 | Murotani et al  |       |          |                               |

## FOREIGN PATENT DOCUMENTS

|  | DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | ABSTRACT |    |
|--|-----------------|------|---------|-------|----------|----------|----|
|  |                 |      |         |       |          | YES      | NO |
|  |                 |      |         |       |          |          |    |
|  |                 |      |         |       |          |          |    |

## OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

|          |   |
|----------|---|
|          | Introduction to Storage Pooling, Consolidation Storage Resources with DataCore<br>SANsymphony Software" White Paper, DataCore Software, updated July 2003, pp. 1-8. |
| EXAMINER | DATE CONSIDERED   |

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])

|  |                                   |               |
|--|-----------------------------------|---------------|
| <b>FORM PTO-1449</b> U.S. Department of<br>Commerce Patent and Trademark Office<br><br><b>INFORMATION DISCLOSURE<br/>STATEMENT BY APPLICANT</b><br><br>(Use several sheets if necessary) | ATTY. DOCKET NO.                  | SERIAL NO.    |
|  | 520.43141X00                      | 10/661,574    |
|  | APPLICANT<br>K. OKADA, et al      |               |
|  | FILING DATE<br>September 15, 2003 | GROUP<br>2182 |

## U.S. PATENT DOCUMENTS

| EXAMINER<br>INITIAL | DOCUMENT NUMBER | DATE  | NAME         | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|-----------------|-------|--------------|-------|----------|-------------------------------|
|                     | 5 1 5 5 8 4 5   | 10/92 | Beal et al   |       |          |                               |
| 2<br>0<br>0<br>4    | 0 2 6 0 9 6 6   | 12/04 | Kaiya et al  |       |          |                               |
| 2<br>0<br>0<br>2    | 0 0 2 9 3 2 6   | 3/02  | Reuter et al |       |          |                               |
| 2<br>0<br>0<br>2    | 0 0 0 3 0 2 2   | 1/02  | Csida et al  |       |          |                               |
| 2<br>0<br>0<br>2    | 0 0 2 6 5 5 8   | 2/02  | Reuter et al |       |          |                               |
| 2<br>0<br>0<br>2    | 0 0 1 9 9 2 0   | 2/02  | Reuter et al |       |          |                               |
| 2<br>0<br>0<br>2    | 0 0 1 9 9 2 2   | 2/02  | Reuter et al |       |          |                               |
| 2<br>0<br>0<br>2    | 0 0 1 9 9 2 3   | 2/02  | Reuter et al |       |          |                               |

## FOREIGN PATENT DOCUMENTS

| DOCUMENT NUMBER | DATE            | COUNTRY | CLASS | SUBCLASS | ABSTRACT |
|-----------------|-----------------|---------|-------|----------|----------|
|                 |                 |         |       |          | YES NO   |
| EXAMINER        | DATE CONSIDERED |         |       |          |          |

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])

**FORM PTO-1449** U.S. Department of  
Commerce Patent and Trademark Office

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

ATTY. DOCKET NO.

**520.43141X00**

SERIAL NO.

**10/661,574**

APPLICANT

**K. OKADA, et al**

FILING DATE

**September 15, 2003**

GROUP

**2182**

**U.S. PATENT DOCUMENTS**

| EXAMINER<br>INITIAL | DOCUMENT NUMBER | DATE | NAME            | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|-----------------|------|-----------------|-------|----------|-------------------------------|
|                     | 6 1 9 5 7 3 0   | 2/01 | West            |       |          |                               |
| 2<br>0<br>0<br>2    | 0 0 1 9 9 0 8   | 2/02 | Reuter et al    |       |          |                               |
| 2<br>0<br>0<br>2    | 0 0 6 5 8 6 4   | 5/02 | Hartsell, et al |       |          |                               |
| 2<br>0<br>0<br>2    | 0 0 8 7 5 4 4   | 7/02 | Selkirk, et al  |       |          |                               |
| 2<br>0<br>0<br>2    | 0 1 0 3 8 8 9   | 8/02 | Markson, et al  |       |          |                               |
| 2<br>0<br>0<br>2    | 0 1 1 2 1 1 3   | 8/02 | Karpoff, et al  |       |          |                               |

**FOREIGN PATENT DOCUMENTS**

| DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | ABSTRACT |
|-----------------|------|---------|-------|----------|----------|
|                 |      |         |       |          | YES NO   |
| 9 7 0 9 6 7 6   | 3/97 | PCT     |       |          |          |

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

EXAMINER

DATE CONSIDERED

**EXAMINER:** Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])

**FORM PTO-1449** U.S. Department of  
Commerce Patent and Trademark Office

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

ATTY. DOCKET NO.

**520.43141X00**

SERIAL NO.

**10/661,574**

APPLICANT

**K. OKADA, et al**

FILING DATE

**September 15, 2003**

GROUP

**2182**

**U.S. PATENT DOCUMENTS**

| EXAMINER<br>INITIAL | DOCUMENT NUMBER | DATE  | NAME             | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|-----------------|-------|------------------|-------|----------|-------------------------------|
| 2<br>0<br>0<br>2    | 0 1 5 6 9 8 4   | 10/02 | Padovano         |       |          |                               |
| 2<br>0<br>0<br>2    | 0 1 5 6 9 8 7   | 10/02 | Gajjar, et al    |       |          |                               |
| 2<br>0<br>0<br>2    | 0 1 7 8 3 3 5   | 11/02 | Selkirk, et al   |       |          |                               |
| 2<br>0<br>0<br>2    | 0 1 8 8 5 9 2   | 12/02 | Leonhardt, et al |       |          |                               |
| 2<br>0<br>0<br>5    | 0 2 4 0 7 4 1   | 10/05 | Nagasawa et al   |       |          |                               |
|                     | 5 9 7 8 8 9 0   | 11/99 | Ozawa et al      |       |          |                               |

**FOREIGN PATENT DOCUMENTS**

| DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | ABSTRACT |
|-----------------|------|---------|-------|----------|----------|
|                 |      |         |       |          | YES NO   |
|                 |      |         |       |          |          |

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

|  |  |
|--|--|
|  | P. Sarkar, et al "Internet Protocol Storage Area Networks", IBM Systems, Journal, vol. 42, No. 2, 2003, pp. 218-231.   |
|  | E. Anderson, et al, "Hippodrome: Running Circles Around Storage Administration", Hewlett-Packard Laboratories, pp. 14. |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])

**FORM PTO-1449** U.S. Department of  
Commerce Patent and Trademark Office

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

ATTY. DOCKET NO.

**520.43141X00**

SERIAL NO.

**10/661,574**

APPLICANT

**K. OKADA, et al**

FILING DATE

**September 15, 2003**

GROUP

**2182**

**U.S. PATENT DOCUMENTS**

| EXAMINER<br>INITIAL |                  | DOCUMENT NUMBER |   |   |   |   |   |   | DATE  | NAME             | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|------------------|-----------------|---|---|---|---|---|---|-------|------------------|-------|----------|-------------------------------|
|                     | 2<br>0<br>0<br>4 | 0               | 0 | 8 | 8 | 4 | 1 | 7 | 5/04  | Bober, et al     |       |          |                               |
|                     | 2<br>0<br>0<br>3 | 0               | 0 | 9 | 3 | 5 | 6 | 7 | 5/03  | Lolayekar, et al |       |          |                               |
|                     | 2<br>0<br>0<br>4 | 0               | 0 | 6 | 8 | 6 | 3 | 7 | 4/04  | Nelson et al     |       |          |                               |
|                     | 2<br>0<br>0<br>3 | 0               | 2 | 2 | 9 | 6 | 4 | 5 | 12/03 | Nelson et al     |       |          |                               |
|                     | 2<br>0<br>0<br>5 | 0               | 0 | 3 | 3 | 8 | 7 | 8 | 2/05  | Mogi et al       |       |          |                               |
|                     | 2<br>0<br>0<br>4 | 0               | 1 | 3 | 9 | 2 | 3 | 7 | 7/04  | Pangal et al     |       |          |                               |
|                     | 2<br>0<br>0<br>3 | 0               | 1 | 1 | 5 | 2 | 1 | 8 | 6/03  | Bobbit et al     |       |          |                               |

**FOREIGN PATENT DOCUMENTS**

|  |  | DOCUMENT NUMBER |  |  |  |  |  |  | DATE | COUNTRY | CLASS | SUBCLASS | ABSTRACT |    |
|--|--|-----------------|--|--|--|--|--|--|------|---------|-------|----------|----------|----|
|  |  |                 |  |  |  |  |  |  |      |         |       |          | YES      | NO |
|  |  |                 |  |  |  |  |  |  |      |         |       |          |          |    |

**EXAMINER**

**DATE CONSIDERED**

**EXAMINER:** Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])

**FORM PTO-1449** U.S. Department of  
Commerce Patent and Trademark Office

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

ATTY. DOCKET NO.

**520.43141X00**

SERIAL NO.

**10/661,574**

APPLICANT

**K. OKADA, et al**

FILING DATE

**September 15, 2003**

GROUP

**2182**

**U.S. PATENT DOCUMENTS**

| EXAMINER<br>INITIAL | DOCUMENT NUMBER | DATE  | NAME           | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|-----------------|-------|----------------|-------|----------|-------------------------------|
|                     | 6 7 1 8 4 0 4   | 4/04  | Reuter et al   |       |          |                               |
|                     | 6 8 5 7 0 5 7   | 2/05  | Nelson et al   |       |          |                               |
|                     | 6 9 7 3 5 4 9   | 12/05 | Testardi       |       |          |                               |
|                     | 6 9 7 6 1 0 3   | 12/05 | Watanabe et al |       |          |                               |
|                     | 3 7 7 1 1 3 7   | 11/73 | Barner et al   |       |          |                               |

**FOREIGN PATENT DOCUMENTS**

| DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | ABSTRACT |
|-----------------|------|---------|-------|----------|----------|
|                 |      |         |       |          | YES NO   |
| 0 3 0 2 3 6 4 0 | 3/03 | PCT     |       |          |          |
|                 |      |         |       |          |          |
|                 |      |         |       |          |          |
|                 |      |         |       |          |          |

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

|  |  |
|--|--|
|  | JP 10-508967 (PCT equivalent WO 97/09676). |
|  |  |
|  |  |

EXAMINER

DATE CONSIDERED

**EXAMINER:** Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])

**FORM PTO-1449** U.S. Department of  
Commerce Patent and Trademark Office

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

ATTY. DOCKET NO.

**520.43141X00**

SERIAL NO.

**10/661,574**

APPLICANT

**K. OKADA, et al**

FILING DATE

**September 15, 2003**

GROUP

**2182**

**U.S. PATENT DOCUMENTS**

| EXAMINER<br>INITIAL | DOCUMENT NUMBER | DATE  | NAME           | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|-----------------|-------|----------------|-------|----------|-------------------------------|
|                     | 6 6 2 2 2 2 0   | 9/03  | Yoshida et al  |       |          |                               |
|                     | 6 6 4 7 3 8 7   | 11/03 | McKean et al   |       |          |                               |
|                     | 6 7 7 2 3 1 5   | 8/04  | Perego         |       |          |                               |
| R E                 | 3 7 3 0 5       | 7/01  | Chang et al    |       |          |                               |
| 2<br>0<br>0<br>5    | 0 1 3 8 1 8 4   | 6/05  | Amir           |       |          |                               |
| 2<br>0<br>0<br>4    | 0 0 5 4 8 6 6   | 3/04  | Blumenau et al |       |          |                               |
| 2<br>0<br>0<br>4    | 0 0 2 8 0 4 3   | 2/04  | Maveli et al   |       |          |                               |

**FOREIGN PATENT DOCUMENTS**

| DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | ABSTRACT |
|-----------------|------|---------|-------|----------|----------|
|                 |      |         |       |          | YES NO   |
|                 |      |         |       |          |          |
|                 |      |         |       |          |          |

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

|  |   |
|--|---|
|  | "SANRAD Application Note: Migrating Individual Servers to an iSCSI SAN", APP-004-01, SANRAD 2003, pp. 1-15.   |
|  | "SANRAD Application Note: Data Migration Solution Transferring Data Between Storage Systems Over Fibre-Channel or SCSI Connections, APP-003-03, SANRAD 2003, pp. 1-9. |
|  | "White Paper – Celerra Data Migration Service (CDMS)", EMC Corporation, Jan. 2002, pp. 1-13.  |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])



**FORM PTO-1449** U.S. Department of  
Commerce Patent and Trademark Office

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

ATTY. DOCKET NO.

**520.43141X00**

SERIAL NO.

**10/661,574**

APPLICANT

**K. OKADA, et al**

FILING DATE

**September 15, 2003**

GROUP

**2182**

**U.S. PATENT DOCUMENTS**

| EXAMINER<br>INITIAL | DOCUMENT NUMBER | DATE  | NAME           | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|-----------------|-------|----------------|-------|----------|-------------------------------|
| 2<br>0<br>0<br>1    | 0 0 5 4 1 3 3   | 12/01 | Murotani et al |       |          |                               |
| 2<br>0<br>0<br>2    | 0 1 2 4 1 0 8   | 9/02  | Terrell et al  |       |          |                               |
| 2<br>0<br>0<br>3    | 0 2 0 4 7 0 0   | 10/03 |                |       |          |                               |
| 2<br>0<br>0<br>5    | 0 0 1 0 7 4 3   | 01/05 | Tremblay et al |       |          |                               |
|                     | 4 7 1 0 8 6 8   | 12/87 | Cocke et al    |       |          |                               |
|                     | 6 3 4 1 3 2 9   | 1/02  | LeCrone et al  |       |          |                               |
|                     | 6 6 8 1 3 0 3   | 1/04  | Watabe et al   |       |          |                               |

**FOREIGN PATENT DOCUMENTS**

| DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | ABSTRACT |
|-----------------|------|---------|-------|----------|----------|
|                 |      |         |       |          | YES NO   |
|                 |      |         |       |          |          |

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

|  |  |
|--|--|
|  |  |
|  |  |

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])

**FORM PTO-1449** U.S. Department of  
Commerce Patent and Trademark Office

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

ATTY. DOCKET NO.

**520.43141X00**

SERIAL NO.

**10/661,574**

APPLICANT

**K. OKADA, et al**

FILING DATE

**September 15, 2003**

GROUP

**2182**

**U.S. PATENT DOCUMENTS**

| EXAMINER<br>INITIAL | DOCUMENT NUMBER | DATE  | NAME                 | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|-----------------|-------|----------------------|-------|----------|-------------------------------|
|                     | 5 7 5 8 1 1 8   | 5/98  | Choy et al           | 711   | 114      |                               |
|                     | 5 8 3 5 9 5 4   | 11/98 | Duyanovich et<br>al  | 711   | 162      |                               |
|                     | 6 1 0 8 7 4 8   | 8/00  | Ofek et al           | 711   | 112      |                               |
|                     | 6 2 3 0 2 3 9   | 5/01  | Sakaki et al         | 711   | 112      |                               |
|                     | 6 2 4 0 4 8 6   | 5/01  | Ofek et al           | 711   | 112      |                               |
|                     | 6 4 5 7 1 3 9   | 9/02  | D'Errico et al       | 714   | 5        |                               |
|                     | 6 6 4 0 2 9 1   | 10/03 | Fujibayashi et<br>al | 711   | 162      |                               |
|                     | 6 8 2 6 7 7 8   | 11/04 | Bopardikar et al     | 725   | 145      |                               |
|                     | 6 8 1 6 9 4 8   | 11/04 | Kitamura et al       | 711   | 152      |                               |

**FOREIGN PATENT DOCUMENTS**

| DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | ABSTRACT |
|-----------------|------|---------|-------|----------|----------|
|                 |      |         |       |          | YES NO   |
|                 |      |         |       |          |          |
|                 |      |         |       |          |          |
|                 |      |         |       |          |          |

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

|  |  |
|--|--|
|  |  |
|  |  |
|  |  |

EXAMINER

DATE CONSIDERED

**EXAMINER:** Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])

**FORM PTO-1449** U.S. Department of  
Commerce Patent and Trademark Office

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(Use several sheets if necessary)

ATTY. DOCKET NO.

**520.43141X00**

SERIAL NO.

**10/661,574**

APPLICANT

**K. OKADA, et al**

FILING DATE

**September 15, 2003**

GROUP

**2182**

**U.S. PATENT DOCUMENTS**

| EXAMINER<br>INITIAL | DOCUMENT NUMBER | DATE  | NAME            | CLASS | SUBCLASS | FILING DATE<br>IF APPROPRIATE |
|---------------------|-----------------|-------|-----------------|-------|----------|-------------------------------|
|                     | 5 5 4 8 7 1 2   | 8/96  | Larson et al    | 714   | 7        |                               |
|                     | 5 6 8 0 6 4 0   | 10/97 | Ofek et al      | 710   | 19       |                               |
| 2<br>0<br>0<br>2    | 0 1 9 4 5 2 3   | 12/02 | Ulrich et al    | 714   | 4        |                               |
| 2<br>0<br>0<br>3    | 0 1 8 2 5 2 5   | 9/03  | O'Connell et al | 711   | 162      |                               |
| 2<br>0<br>0<br>5    | 0 0 8 1 0 0 9   | 4/05  | Williams et al  | 711   | 163      |                               |
| 2<br>0<br>0<br>5    | 0 0 1 0 7 3 4   | 1/05  | Soejima et al   | 711   | 163      |                               |
| 2<br>0<br>0<br>3    | 0 1 4 5 1 6 9   | 7/03  | Nagasawa et al  | 711   | 117      |                               |
|                     | 7 0 5 1 1 2 1   | 5/06  | H. Ohno, et al  |       |          |                               |

**FOREIGN PATENT DOCUMENTS**

| DOCUMENT NUMBER | DATE | COUNTRY | CLASS | SUBCLASS | ABSTRACT |
|-----------------|------|---------|-------|----------|----------|
|                 |      |         |       |          | YES NO   |
|                 |      |         |       |          |          |

**OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)**

|  |  |
|--|--|
|  |  |
|--|--|

EXAMINER

DATE CONSIDERED

**EXAMINER:** Initial if citation is considered, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

(Form PTO-1449 [6-4])